

REMARKS

The office action of November 10, 2010, has been carefully considered.

It is noted that the application is objected to for containing various informalities.

Claims 1-11 are objected to for containing various informalities.

Claims 3, 5, 7, 9 and 11 are rejected under 35 U.S.C. 112, first paragraph.

Claims 4 and 5 are rejected under 35 U.S.C. 112, second paragraph.

Claims 1, 2, 4, 6 and 10 are rejected under 35 U.S.C. 103(a) over Applicant's Admitted Prior Art in view of JP 53028058 and the patent to Wilson.

Claim 8 is rejected under 35 U.S.C. 103(a) over AAPA, JP 058 and Wilson, and further in view of the patent to Kataoka.

In connection with the Examiner's objections to the application, applicant has canceled the original abstract and attached hereto a new Abstract of the Disclosure. The specification has been amended to include section headings and to provide support for claims 3, 5-7, 9 and 11.

In view of these considerations it is respectfully submitted that the objections to the application are overcome and should be withdrawn.

In view of the Examiner's rejections of the claims, applicant has amended claims 1-11.

With the amendments to the claims applicant submits that the objection to the claims is overcome and should be withdrawn.

It is respectfully submitted that the claims now on file contain subject matter which is sufficiently described in the specification so as to enable one skilled in the art to make and/or use the invention. Applicant has amended the specification to disclose the compositions recited in the claims.

In view of these considerations it is respectfully submitted that the rejection of claims 3, 5, 7, 9 and 11 under 35 U.S.C. 112, first paragraph is overcome and should be withdrawn.

It is respectfully submitted that the claims now on file particularly point out and distinctly claim the subject matter which applicant regards as the invention. Applicant has amended the claims to address the instances of indefiniteness pointed out by the Examiner.

In view of these considerations it is respectfully submitted that the rejection of claims 4 and 5 under 35 U.S.C. 112, second paragraph is overcome and should be withdrawn.

It is respectfully submitted that the claims presently on file differ essentially and in an unobvious, highly advantageous manner from the constructions disclosed in the references.

Turning now to the references and particularly to JP 058, it can be seen that this reference discloses a composite profile roll with a shrink-fit sleeve on a core shaft.

The patent to Wilson discloses a rolling mill apparatus.

Applicant's Admitted Prior Art (AAPA) discloses a reel driver with a lower driving roll and an upper driving roll.

The Examiner combined the above prior art in determining that claims 1, 2, 4, 6 and 10 would be unpatentable over such a combination. Applicant respectfully submits that the combination of references does not suggest the presently claimed invention. AAPA does teach a hollow upper roll and a solid lower roll. However, JP 058 and Wilson do not provide any suggestion for modifying AAPA to arrive at the presently claimed invention. JP 058 teaches both an upper roll and a lower roll that are solid. For both rolls, a thin outer sleeve 2 is shrink-fit on the core 1. Wilson teaches a rolling mill apparatus having solid rolls made up of a sleeve 22 mounted directly on a roll shaft 18 by a clamping collar 26. In JP 058 both solid rolls have a shrink-fit sleeve. In Wilson, both solid rolls have a sleeve attached by a collar. There is no teaching in any of the references of a hollow roll that has a sleeve mounted on a shaft by clamping elements, as in the presently claimed invention. Furthermore, since JP 058 and Wilson each use only a single type of mounting for mounting a sleeve onto a shaft, it would not be obvious to mount both rolls with different types of mounting, as in the present invention. It would

not be obvious to modify AAPA as suggested by the Examiner since neither of the secondary references provides an indication that it would be desirable to mount the sleeve of the upper roll in a different way than the sleeve on the lower roll. Also, since both secondary references only deal with solid rolls, they provide no suggestion relative to mounting a sleeve on a hollow roll, as in the present invention.

In view of these considerations it is respectfully submitted that the rejection of claims 1, 2, 4, 6 and 10 under 35 U.S.C. 103(a) over a combination of the above-discussed references is overcome and should be withdrawn.

The patent to Kataoka has also been considered. Applicant submits that this reference adds nothing to the teachings of JP 058 and Wilson so as to suggest the presently claimed invention. Thus, it is respectfully submitted that the rejection of claim 8 under 35 U.S.C. 103(a) over a combination of the above-discussed references is overcome and should be withdrawn.

Reconsideration and allowance of the present application are respectfully requested.

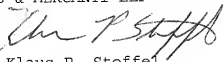
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Any additional fees or charges required at this time in connection with this application may be charged to Patent and Trademark Office Deposit Account No. 02-2275.

Respectfully submitted,

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By:


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Date: May 10, 2011